

ABSTRACT

A method for analyzing synchronizations of the electroencephalography of an individual using a set of sensors starting from cerebral electromagnetic analysis of the individual. The method creates a database by acquisition and digitization of electrophysiological signals output from the sensors, and calculates the degree of synchronization existing between all pairs of sensors recorded in an assembly protocol, in frequency bands between 0 and 2000 Hz, to build up the database of classes each characterizing a reference state. The method further performs statistical validation of a period analyzed in real time, which assigns this period to a class in the database, and detects a specific period with a determined degree of synchronization. A device implements this method.